

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.

5.1 Linac Turn on for Booster Proton Operations

1. Purpose

To provide instructions for MCR operators regarding turn on of Linac systems in preparation for operation of the AGS.

2. Responsibilities

MCR operators initiate the turn on of the Linac by requesting the turn on of subsystems. The systems experts on the Linac staff turn on the subsystems. The Linac Operations Coordinator should be consulted concerning Linac turn on.

3. Prerequisites

- 3.1 Qualified and trained MCR operator.
- 3.2 MCR will set user trigger and inform the Linac Operations Coordinator.
- 3.3 LTB Beam Stops "Closed".

4. Precautions

The systems experts are responsible for the safe turn on of their subsystems. Radiation safety check-off list must be completed for Linac prior to initial start-up. The linac tunnel, HEBT, and BLIP must be secured prior to accelerating beam in the linac. A double-redundant radiation safety security system assures that the above conditions are fulfilled.

5. Procedure

- 5.1 MCR must inform the Linac Operations Coordinator of the date on which they desire beam from the linac. If the linac is fully shut down, it may take one week or more for the linac to be turned on. To make the turn on as smooth as possible, the Linac Operations Coordinator should be kept informed regarding any tentative AGS schedule.
- 5.2 Once a date is known for when the Linac should be able to deliver beam to the Booster, the Linac Operations Coordinator will coordinate the turn on of the subsystems (ion source, rf, quadrupoles, etc.) to meet that date.

- 5.3 The Linac Operations Coordinator will inform the MCR operator if a problem has been encountered during turn on which could lead to a delay in the schedule.
- 5.4 The Linac equipment is turned on by the systems experts on the Linac staff. In the process of bringing on and checking out the equipment, beam will be accelerated in the Linac at MCR's request and witnessed by the Linac Operations Coordinator.

6. Documentation

Completion of Linac turn on will be recorded in the MCR logbook and Linac Operations logbook.

7. References

None

8. Attachments

None